Outreach and Marketing

Publications

(1) https://arxiv.org/abs/1801.01085v2
Title: ARTEMIS: Neutralizing BGP Hijacking within a Minute (technical report)
Authors: Sermpezis, P., Kotronis, V., Gigis, P., Dimitropoulos, X., Cicalese, D., King, A., Dainotti, A.
Date: Jan 2018
Venue: arXiv
Keywords: passive data analysis, routing, security, software/tools, topology

Title: A Survey among Network Operators on BGP Prefix Hijacking
Authors: Sermpezis, P., Kotronis, V., Dainotti, A., Dimitropoulos, X.
Date: Jan 2018
Venue: ACM SIGCOMM Computer Communication Review (CCR), v. 48 (1), pp. 64-69
Keywords: security, routing, passive data analysis, topology

(3) https://dl.acm.org/citation.cfm?doid=3234200.3234209
Title: On the Potential of BGP Flowspec for DDoS Mitigation at Two Sources: ISP and IXP
Authors: N. Hinze, M. Nawrocki, M. Jonker, A. Dainotti, T. Schmidt, and M. Wählisch
Date: August 2018
Venue: Proceeding of the ACM SIGCOMM 2018 Conference on Posters and Demos, pp. 57-59
Keywords: internet outages, measurement methodology, network telescope, security software/tools, topology

Title: Inferring Carrier-Grade NAT Deployment in the Wild
Authors: I. Livadariu, K. Benson, A. Elmokashfi, A. Dainotti, and A. Dhamdhere
Date: April 2018
Venue: INFOCOM
Keywords: IPv6, measurement methodology

(5) https://dl.acm.org/citation.cfm?id=3278571
Title: A First Joint Look at DoS Attacks and BGP Blackholing in the Wild
Authors: Jonker, Mattijs, Aiko Pras, Alberto Dainotti, and Anna Sperotto
Date: October 2018
Venue: Internet Measurement Conference
Keywords: Denial-of-Service; DDoS Mitigation; BGP; Blackholing

Title: Chocolatine: Outage Detection for Internet Background Radiation
Authors: A. Guillot, R. Fontugne, P. Winter, P. Mérindol, A. King, A. Dainotti, and C. Pelsser
Title: Geo-Locating BGP prefixes
Authors: P. Winter, R. Padmanabhan, A. King, and A. Dainotti
Date: June 2019
Venue: Proceedings of Network Traffic Measurement and Analysis Conference (TMA)
Keywords: internet outages, measurement methodology, routing

Title: BGP hijacking classification
Authors: S. Cho, R. Fontugne, K. Cho, A. Dainotti, and P. Gill
Date: June 2019
Venue: Proceedings of Network Traffic Measurement and Analysis Conference (TMA)
Keywords: routing, security, topology

Title: Towards Passive Analysis of Anycast in Global Routing: Unintended Impact of Remote Peering
Authors: R. Bian, S. Hao, H. Wang, A. Dhamdhere, A. Dainotti, and C. Cotton
Date: July 2019
Keywords: routing, dns, topology

(10) https://journals.sagepub.com/toc/jcrb/0/0
Title: At Home and Abroad: The Use of Denial-of-service Attacks during Elections in Nondemocratic Regimes.
Authors: P. Lutscher, N. Weidmann, M. Roberts, M. Jonker, A. King, and A. Dainotti
Date: July 2019
Venue: Journal of Conflict Resolution, DOI: 0022002719861676
Keywords: passive data analysis, security, network telescope

Title: Toward a Theory of Harms in the Internet Ecosystem.
Authors: D. Clark and k. claffy
Date: August 2019
Venue: CAIDA
Keywords: overview, policy

Title: Residential Links Under the Weather
Authors: R. Padmanabhan, A. Schulman, D. Levin, N. Spring
Date: August 2019
Venue: ACM SIGCOMM Conference Proceedings
Keywords: active data analysis, measurement methodology, routing

Title: Profiling BGP Serial Hijackers: Capturing Persistent Misbehavior in the Global Routing Table
Authors: Testart, C., Richter, P., King, A., Dainotti, A., & Clark, D.
Date: October 2019
Venue: Proceedings of the Internet Measurement Conference (IMC’19)
Keywords: routing, security, topology
Title: Learning Regexes to Extract Router Names from Hostnames
Authors: Luckie, M., Huffaker, B., & Claffy, K.
Date: October 2019
Venue: Proceedings of the Internet Measurement Conference (IMC'19)
Keywords: measurement methodology, software/tools, topology

Title: To Filter or Not to Filter: Measuring the Benefits of Registering in the RPKI Today
Authors: Testart, C., Richter, P., King, A., Dainotti, A., Clark, D.
Date: March 2020
Venue: Proceedings of the Passive and Active Measurement. PAM 2020
Keywords: Internet security, Routing, RPKI, BGP

Title: Unintended Consequences: Effects of Submarine Cable Deployment on Internet Routing.
Authors: Fanou R., Huffaker B., Mok R., Claffy K.C.
Date: March 2020
Venue: Proceedings of the Passive and Active Measurement. PAM 2020
Keywords: measurement methodology, BGP, topology

Title: RIPE IPmap active geolocation: mechanism and performance evaluation
Authors: Du, B., Candela, M., Huffaker B., Snoeren, A. C., Claffy K.
Date: April 2020
Keywords: measurement methodology, routing, topology
Presentations

1. Meeting Name: Workshop on Active Internet Measurements (AIMS)
   Dates: March 13 - 15, 2018
   Location: UC San Diego, La Jolla, CA
   Attendees from the project: kc claffy, A. Dainotti, and M. Fomenkov
   Presentations: A. Dainotti, ARTEMIS: Neutralizing BGP Hijacking within a Minute
   (http://www.caida.org/publications/presentations/2018/artemis_aims/)

2. Meeting Name: CAIDA IMAPS Workshop
   Purpose: Workshop on interdisciplinary research of political events that are visible through analysis of Internet measurement data
   Dates: September 5 - 7, 2018
   Location: La Jolla, CA
   Meeting Attendees: kc claffy, A. Dainotti, A. King and M. Fomenkov
   Presentations Made: A. King, “Realtime detection and analysis of Denial of Service attacks”

3. Meeting Name: DHS 2019 S&T Cybersecurity and Innovation Showcase
   Purpose: To introduce DHS-funded research projects to government, industry technology implementers, investors, angel funders, and other potential market transition partners.
   Dates: March 18 - 20, 2019
   Location: Washington DC
   Meeting Attendees: kc claffy, A. Dainotti, Alistair King
   Presentations Made: A. Dainotti, “HI-CUBE: Hub for Internet Incident Investigation”;
   kc claffy, “Advancing Scientific Study of Internet Security and Topological Stability (ASSISTS DP)”

4. Meeting Name: Visit at DreamPort / Collaboration on BGP hijacking with Geiger-Gremlin team at Cyber National Mission Force
   Purpose: To discuss methods and infrastructure for BGP hijacking detection and mitigation.
   Dates: May 2-3, 2019
   Location: DreamPort, Columbia MD
   Meeting Attendees: A. Dainotti
   Presentations Made: A. Dainotti, demos and excerpts from ”CAIDA’s BGP Observatory”, ”Neutralizing BGP Hijacking with the ARTEMIS Open-source Tool”, “Extracting Cybersecurity Metrics from Internet Mapping and Monitoring”

5. Meeting Name: CAIDA’s BGP Hijacking Observatory
   Purpose: To discuss with and demo to the ISOC MANRS project lead our current work to develop and deploy CAIDA’s BGP Hijacking Observatory.
   Dates: August 8, 2019
   Location: Conference Call
   Meeting Attendees: A. Dainotti
   Presentations Made: A. Dainotti, demo and excerpts from ”CAIDA’s BGP Observatory”

6. Meeting Name: Workshop on Darkspace and UnSolicited Traffic Analysis (DUST)
   Purpose: To bring together researchers, operators, and analysts interested in unsolicited traffic analysis, especially traffic destined to unassigned (dark) IP address space.
   Dates: September 9-10, 2019
   Location: SDSC, UCSD La Jolla, CA
   Meeting Attendees: kc claffy, A. Dainotti, E. Yulaeva, A. King
7. Meeting Name: ACM Internet Measurement Conference 2019
Purpose: IMC is a three-day event focusing on Internet measurement and analysis.
Dates: October 21-23, 2019
Location: KIT Royal Tropical Institute, Amsterdam, Netherlands
Meeting Attendees: A. Dainotti, A. King
Presentations Made: C. Testart, P. Richter, A. King, A. Dainotti, D. Clark "Profiling BGP Serial Hijackers: Capturing Persistent Misbehavior in the Global Routing Table"

8. Meeting Name: ACM Internet Measurement Conference 2019
Purpose: IMC is a three-day event focusing on Internet measurement and analysis.
Dates: October 21-23, 2019
Location: KIT Royal Tropical Institute, Amsterdam, Netherlands
Meeting Attendees: A. Dainotti, A. King
Presentations Made: M. Luckie, B. Huffaker, K. claffy "Learning to Extract Router Names from Hostnames"

9. Meeting Name: Workshop on Active Internet Measurements: Knowledge of Internet Structure: Measurement, Epistemology, and Technology (AIMS-KISMET)
Purpose: To bring together researchers, operators, and analysts to discuss possible scenarios for the future of the Internet.
Dates: February 26-28, 2020
Location: SDSC, UCSD La Jolla, CA
Meeting Attendees: kc claffy, A. Dainotti, E. Yulaeva, A. King, J. Polterock
Presentations Made: A. Dainotti, "CAIDA’s BGP (Hijacking) Observatory"; kc claffy, “CAIDA, and DHS IMPACT Program”

10. Meeting Name: Passive and Active Measurement Conference (PAM) 2020
Purpose: To bring together researchers and operators to discuss novel and emerging work in the area of network measurement and analysis.
Dates: March 30-31, 2020
Location: Online
Meeting Attendees: A. Dainotti,
Presentations Made: C. Testart, P. Richter, A. King, A. Dainotti, D. Clark "To Filter or not to Filter: Measuring the Benefits of Registering in the RPKI Today"